

ENDOCRINOLOGY**PAPER-I**Time: 3 hours
Max. Marks:100

ENDO/J/19/07/I

Important Instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. Discuss downstream signaling pathways after binding of insulin with insulin receptor. 10
2. Endocrine Disrupting Chemicals (EDCs). 10
3. Short and long term side effects of growth hormone therapy in a subject with growth hormone deficiency (GHD). 5+5
4. Neuroendocrine regulation of Prolactin secretion. 10
5. Methods for measurement of free hormones. 10
6. Sample size calculation for a drug intervention study for type 2 diabetes. 10
7. Principle and interpretation of water deprivation test. 5 + 5
8. Management of a newly married 24-yr old lady with galactorrhea and amenorrhea of three month duration with serum prolactin level of 110 ng/ml. 10
9. Gamma knife therapy for pituitary tumors. 10
10. Evaluation of a case of acromegaly:
a) Biochemical diagnostic evaluation 6+4
b) Evaluation of associated complications.
